

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph 0090 with:

[0090] C—T—X¹—X²—X³—X⁴—X⁵—X⁶—X⁷—X⁸—X⁹—X¹⁰—X¹¹—X¹²—X¹³—
X¹⁴—X¹⁵—X¹⁶—X¹⁷—E—X¹⁸—K—N (SEQ ID NO:1)

Please replace paragraph 0093 with:

[0093] C—T—X¹—X²—X³—X⁴—X⁵—X⁶—X⁷—X⁸—X⁹—X¹⁰—X¹¹—X¹²—X¹³—
X¹⁴—X¹⁵—X¹⁶—E—X¹⁷—K—N (SEQ ID NO:2)

Please replace paragraph 0096 with:

[0096] C—T—X¹—X²—X³—N—X⁴—X⁵—X⁶—X⁷—X⁸—X⁹—X¹⁰—X¹¹—X¹²—
X¹³—X¹⁴—X¹⁵—E—X¹⁶—X¹⁷—E—X¹⁸—K—N (SEQ ID NO:3)

Please replace paragraph 0099 with:

[0099] C—X¹—X²—X³—X⁴—X⁵—X⁶—X⁷—X⁸—X⁹—X¹⁰—X¹¹—X¹²—X¹³—
X¹⁴—X¹⁵—X¹⁶—X¹⁷—E—X¹⁸—K—N (SEQ ID NO:4)

Please replace paragraph 0102 with:

[0102] C—X¹—X²—X³—X⁴—X⁵—X⁶—X⁷—T—X⁸—X⁹—X¹⁰—X¹¹—X¹²—X¹³—
X¹⁴—X¹⁵—X¹⁶—E—X¹⁷—K—N (SEQ ID NO:5)

Please replace paragraph 0105 with:

[0105] C—X¹—X²—X³—X⁴—X⁵—X⁶—T—X⁷—X⁸—X⁹—X¹⁰—X¹¹—X¹²—
X¹³—T—L—K—X¹⁴—X¹⁵—X¹⁶—X¹⁷—E—X¹⁸—X¹⁹—X²⁰—N (SEQ ID NO:6)

Please replace paragraph 0108 with:

[0108] C—T—X¹—X²—X³—X⁴—X⁵—X⁶—X⁷—X⁸—X⁹—X¹⁰—X¹¹—X¹²—X¹³—
X¹⁴—X¹⁵—X¹⁶—X¹⁷—N (SEQ ID NO:7)

Please replace paragraph 0112 with:

[0112] S—X¹—N—X²—T—T—X³—X⁴—R—X⁵—K—X⁶—X⁷—X⁸—X⁹—X¹⁰—
X¹¹—L—F—Y—X¹²—L—D—V—V—X¹³—I—X¹⁴—X¹⁵—X¹⁶—X¹⁷—X¹⁸—X¹⁹—Y—
X²⁰—L—X²¹—X²²—C (SEQ ID NO:8)

Please replace paragraph 0115 with:

[0115] S—X¹—X²—X³—T—T—X⁴—L—R—D—K—K—X⁵—X⁶—V—X⁷—X⁸—
L—F—Y—R—L—D—V—V—X⁹—I—X¹⁰—X¹¹—X¹²—X¹³—X¹⁴—X¹⁵—X¹⁶—X¹⁷—
X¹⁸—Y—R—L—I—X¹⁹—C (SEQ ID NO:9)

Please replace paragraph 0118 with:

[0118] S—F—X¹—I—T—T—X²—X³—X⁴—X⁵—K—X⁶—X⁷—X⁸—X⁹—X¹⁰—
A—X¹¹—F—X¹²—X¹³—L—D—V—V—X¹⁴—I—X¹⁵—X¹⁶—X¹⁷—X¹⁸—T—X¹⁹—Y—
X²⁰—L—X²¹—X²²—C (SEQ ID NO:10)

Please replace paragraph 0121 with:

[0121] S—F—N—X¹—T—T—E—L—R—D—K—X²—X³—X⁴—X⁵—X⁶—A—
L—F—Y—R—X⁷—D—I—V—X⁸—L—X⁹—X¹⁰—X¹¹—X¹²—X¹³—X¹⁴—Y—X¹⁵—L—
I—X¹⁶—C (SEQ ID NO:11)

Please replace paragraph 0124 with:

[0124] S—F—N—I—T—T—X¹—V—X²—D—K—X³—X⁴—X⁵—X⁶—X⁷—A—
L—X⁸—Y—R—X⁹—D—V—V—X¹⁰—X¹¹—X¹²—X¹³—X¹⁴—X¹⁵—X¹⁶—X¹⁷—X¹⁸—Y—
R—L—I—X¹⁹—C (SEQ ID NO:12)

Please replace paragraph 0127 with:

[0127] S—F—N—X¹—T—X²—E—V—R—D—K—X³—X⁴—K—X⁵—X⁶—A—
L—F—Y—R—L—D—I—X⁷—X⁸—I—X⁹—X¹⁰—X¹¹—X¹²—X¹³—X¹⁴—X¹⁵—Y—R—
L—X¹⁶—X¹⁷—X¹⁸ (SEQ ID NO:13)

Please replace paragraph 0130 with:

[0130] S—F—N—X¹—T—X²—X³—X⁴—X⁵—D—K—X⁶—K—X⁷—E—Y—A—
L—F—Y—R—X⁸—D—V—V—X⁹—I—X¹⁰—X¹¹—X¹²—X¹³—X¹⁴—X¹⁵—Y—X¹⁶—L—
X¹⁷—X¹⁸—C (SEQ ID NO:14)

Please replace paragraph 0134 with:

[0134] X¹C—X²—R—P—X³—N—N—T—R—X⁴—X⁵—X⁶—X⁷—X⁸—G—X⁹—
G—X¹⁰—X¹¹—X¹²—X¹³—X¹⁴—T—G—X¹⁵—I—X¹⁶—G—X¹⁷—I—R—X¹⁸—A—X¹⁹—
C—X²⁰ (SEQ ID NO:15)

Please replace paragraph 0137 with:

[0137] X¹—C—X²—R—P—X³—N—N—X⁴—R—X⁵—X⁶—V—X⁷—I—G—P—
G—X⁸—X⁹—F—X¹⁰—X¹¹—X¹²—X¹³—X¹⁴—I—X¹⁵—G—X¹⁶—I—R—X¹⁷—A—X¹⁸—
C—X¹⁹ (SEQ ID NO:16)

Please replace paragraph 0140 with:

[0140] X¹—C—X²—R—P—X³—N—N—T—R—K—X⁴—I—X⁵—X⁶—G—X⁷—
G—X⁸—X⁹—X¹⁰—X¹¹—X¹²—T—X¹³—X¹⁴—I—X¹⁵—G—X¹⁶—I—R—X¹⁷—A—X¹⁸—
C—X¹⁹ (SEQ ID NO:17)

Please replace paragraph 0143 with:

[0143] X¹—C—X²—R—P—X³—N—N—T—R—X⁴—X⁵—X⁶—X⁷—I—G—P—
G—Q—X⁸—F—X⁹—X¹⁰—T—X¹¹—X¹²—I—X¹³—G—X¹⁴—I—R—X¹⁵—A—X¹⁶—C—
X¹⁷ (SEQ ID NO:18)

Please replace paragraph 0146 with:

[0146] X¹—C—X²—R—P—X³—X⁴—X⁵—X⁶—R—X⁷—X⁸—X⁹—X¹⁰—I—G—
X¹¹—G—X¹²—X¹³—X¹⁴—X¹⁵—X¹⁶—T—X¹⁷—E—X¹⁸—G—X¹⁹—I—X²⁰—X²¹—A—
X²²—C—X²³ (SEQ ID NO:19)

Please replace paragraph 0149 with:

[0149] X¹-C-T-R-P-X²-N-N-X³-R-K-X⁴-I-X⁵-L-P-G-P-X⁶-X⁷-X⁸-X⁹-X¹⁰-X¹¹-X¹²-X¹³-I-X¹⁴-G-X¹⁵-I-R-X¹⁶-A-X¹⁷-C-X¹⁸ (SEQ ID NO:20)

Please replace paragraph 0152 with:

[0152] X¹-C-X²-R-P-X³-N-N-T-R-K-S-X⁴-X⁵-X⁶-G-X⁷-X⁸-X⁹-X¹⁰-X¹¹-X¹²-X¹³-T-X¹⁴-I-X¹⁵-G-X¹⁶-I-R-X¹⁷-A-X¹⁸-C-X¹⁹ (SEQ ID NO:21)

Please replace paragraph 0156 with:

[0156] C-N-T-T-X¹-L-F-N-S-T-W-X²-X³-X⁴-X⁵-W-X⁶-T-X⁷-X⁸-X⁹-X¹⁰-X¹¹-X¹²-X¹³-X¹⁴-X¹⁵-X¹⁶-X¹⁷-I-X¹⁸-L-X¹⁹-C (SEQ ID NO:22)

Please replace paragraph 0159 with:

[0159] C-X¹-T-S-X²-L-F-N-X³-T-W-X⁴-X⁵-X⁶-X⁷-X⁸-X⁹-X¹⁰-X¹¹-T-X¹²-X¹³-X¹⁴-X¹⁵-X¹⁶-I-X¹⁷-L-X¹⁸-C (SEQ ID NO:23)

Please replace paragraph 0162 with:

[0162] C-N-T-T-X¹-F-N-S-T-W-X²-X³-X⁴-X⁵-X⁶-X⁷-T-X⁸-X⁹-X¹⁰-X¹¹-X¹²-X¹³-X¹⁴-G-X¹⁵-X¹⁶-X¹⁷-I-X¹⁸-L-X¹⁹-C (SEQ ID NO:24)

Please replace paragraph 0165 with:

[0165] C-N-T-S-X¹-L-F-N-X²-T-Y-X³-X⁴-X⁵-X⁶-X⁷-X⁸-X⁹-X¹⁰-X¹¹-X¹²-X¹³-X¹⁴-X¹⁵-X¹⁶-L-X¹⁷-C (SEQ ID NO:25)

Please replace paragraph 0168 with:

[0168] C-X¹-T-S-X²-L-F-N-X³-X⁴-X⁵-X⁶-X⁷-X⁸-X⁹-X¹⁰-X¹¹-X¹²-X¹³-X¹⁴-I-X¹⁵-C (SEQ ID NO:26)

Please replace paragraph 0171 with:

[0171] $X^1-X^2-T-X^3-X^4-L-F-X^5-X^6-X^7-X^8-X^9-X^{10}-X^{11}-X^{12}-$
 $X^{13}-I-X^{14}-L-X^{15}-C$ (SEQ ID NO:27)

Please replace paragraph 0174 with:

[0174] $C-N-T-S-X^1-L-F-X^2-X^3-X^4-X^5-X^6-X^7-X^8-X^9-X^{10}-$
 $X^{11}-X^{12}-X^{13}-X^{14}-I-X^{15}-L-X^{16}-C$ (SEQ ID NO:28)

Please replace paragraph 0178 with:

[0178] $X^1-X^2-X^3-X^4-X^5-X^6-E-X^7-F-R-P-X^8$ (SEQ ID NO:29)

Please replace paragraph 0181 with:

[0181] $X^1-X^2-X^3-X^4-X^5-X^6-X^7-X^8-X^9-R-P-X^{10}$ (SEQ ID NO:30)

Please replace paragraph 0184 with:

[0184] $X^1-X^2-X^3-X^4-X^5-X^6-E-X^7-F-R-P-G$ (SEQ ID NO:31)

Please replace paragraph 0187 with:

[0187] $X^1-X^2-X^3-X^4-X^5-E-X^6-X^7-X^8-X^9-X^{10}$ (SEQ ID NO:32)

Please replace paragraph 0190 with:

[0190] $X^1-X^2-X^3-X^4-X^5-X^6-X^7-E-X^8-X^9-R-X^{10}.X^{11}$ (SEQ ID
NO:33)

Please replace paragraph 0193 with:

[0193] $X^1-X^2-X^3-X^4-X^5-X^6-X^7-F-R-P-X^8$ (SEQ ID NO:34)

Please replace paragraph 0196 with:

[0196] $X^1-X^2-X^3-X^4-X^5-X^6-X^7-X^8-X^9-X^{10}-X^{11}-X^{12}$ (SEQ ID NO:35)

Please replace paragraph 0200 with:

[0200] N—N—N—T—R—K—X¹—I—X²—X³—X⁴—X⁵—G—X⁶—X⁷—X⁸—Y—
X⁹—T—G—X¹⁰—I—I—G—X¹¹—R—Q (SEQ ID NO:36)

Please replace paragraph 0201 with:

[0201] where X¹—X¹¹ were defined according to Table 38

Table 38

X ¹	X ²	X ³	X ⁴	X ⁵	X ⁶	X ⁷	X ⁸	X ⁹	X ¹⁰	X ¹¹
S	H	I	G	P	R	A	F	T	E	D
75	60	[[82]] 88	97	95	77	93	76	58	39	88
G	P	M	A	W	Q	T	W	A	D	N
18	18	12	3	5	9	7	15	42	28	12
R	N				K		L		Q	
7	11				8		9		24	
	S				S				R	
	11				3				9	
					G					
					3					

Please replace paragraph 0222 with:

[0222] An RCPL having 30 peptides (SEQ ID NOS:37-66), each 28 residues in length, that models the antigenic diversity of HIV-1 subtype B variants was synthesized in the form of MAP4. The antigenic properties of the RCPL was compared to a VCPL which also modeled the antigenic diversity of HIV-1 subtype B variants.